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-R<sub>4</sub>-NR<sub>7</sub>-CR<sub>3</sub>-R<sub>6</sub>-aryl;
-R<sub>4</sub>-NR<sub>7</sub>-CR<sub>3</sub>-R<sub>6</sub>-heteroaryl;
-R<sub>4</sub>-NR<sub>7</sub>-CR<sub>3</sub>-R<sub>6</sub>-heterocyclyl; and
-R<sub>4</sub>-NR<sub>7</sub>-CR<sub>3</sub>-R<sub>8</sub>;
each Z is independently -NR<sub>5</sub>-, -O-, or -S-;
R<sub>2</sub> is selected from the group consisting of:
-hydrogen;
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-alkyl;

-alkenyl;

-aryl;

-heteroaryl;

-heterocyclyl;

-alkyl-Y-alkyl;

-alkyl-Y-alkenyl;

-alkyl-Y-aryl; and

- alkyl or alkenyl substituted by one or more substituents selected from the group consisting of:

-OH;

-halogen;

 $-N(R_5)_2;$ 

 $-CO-N(R_5)_2;$ 

-CO-C<sub>1-10</sub> alkyl;

-CO-O-C<sub>1-10</sub> alkyl;

 $-N_3$ ;

-aryl;

-heteroaryl;

-heterocyclyl;

-CO-aryl; and

-CO-heteroaryl;

each  $R_3$  is =0 or =S;

each  $\mathbf{R}_4$  is independently alkyl or alkenyl, which may be interrupted by one or more -O- groups;